

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P532231

Luminaire Tested: **GALN-SA7C-750-U-AFL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532231  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7C-750-U-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 36530 lumens  
Efficiency: N/A  
Efficacy: 96.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

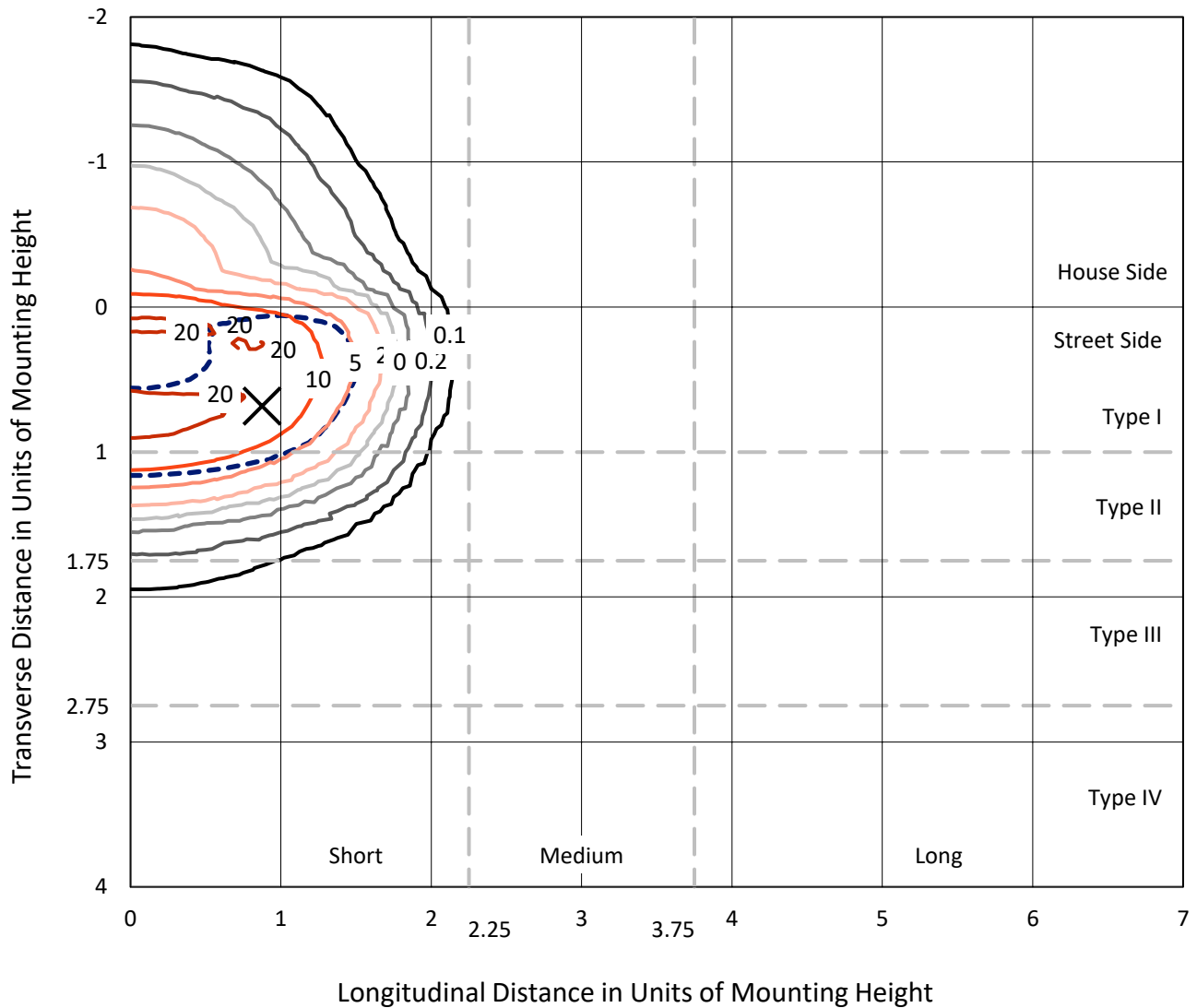
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P532231  
 CATALOG NUMBER: GALN-SA7C-750-U-AFL-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

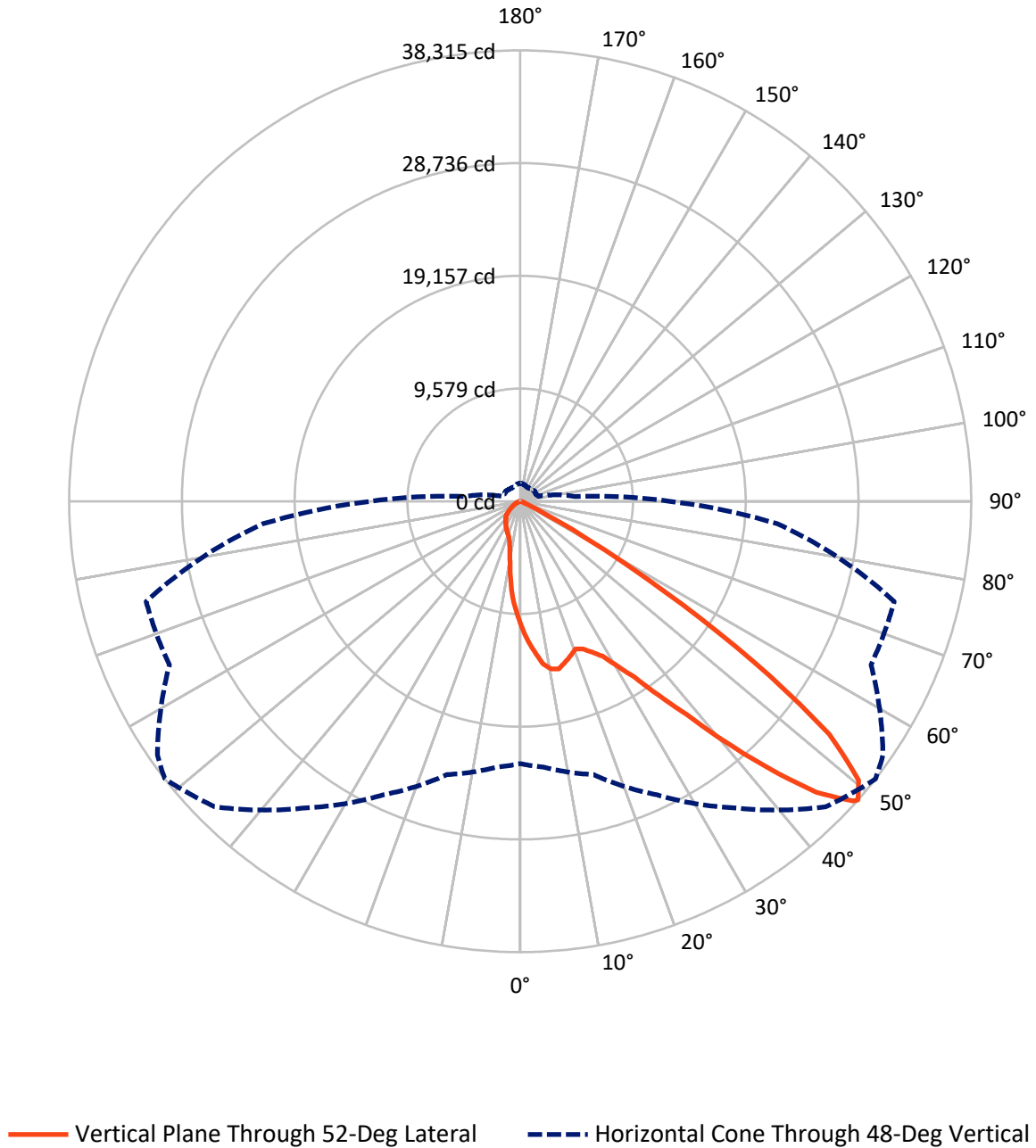
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.6 fc  
 Type II - Short - N/A

REPORT NUMBER: P532231  
CATALOG NUMBER: GALN-SA7C-750-U-AFL-GRSBK

### Luminous Intensity Polar Plot



REPORT NUMBER: P532231  
 CATALOG NUMBER: GALN-SA7C-750-U-AFL-GRSBK

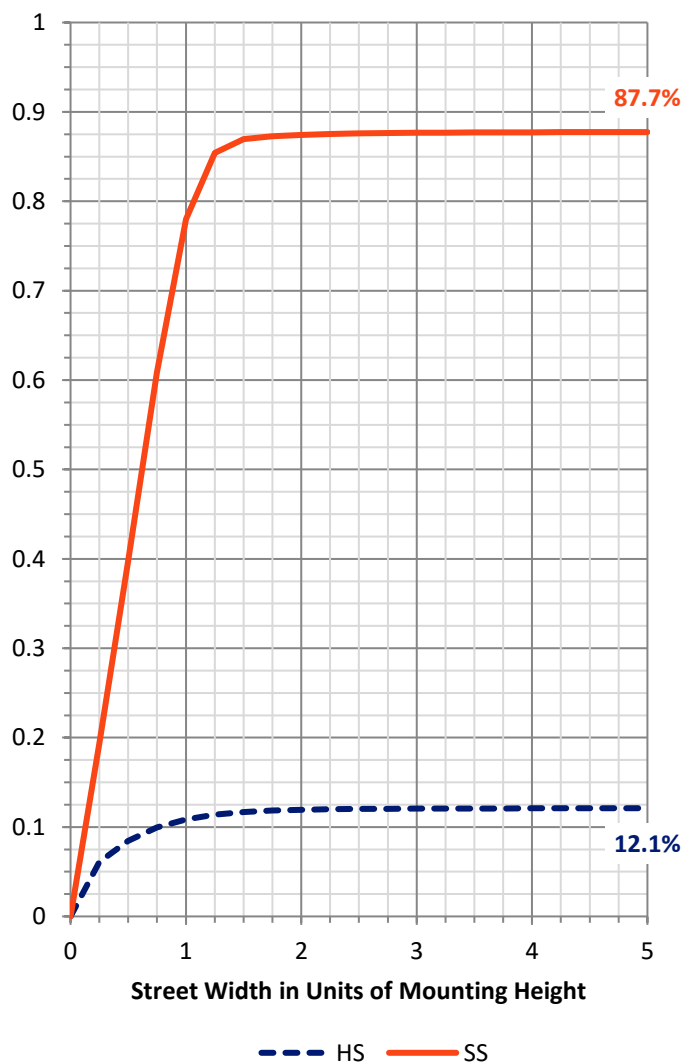
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4447.8   | 0.0    | 4447.8  |
|                    | % Fixture | 12.2     | 0.0    | 12.2    |
| <b>Street Side</b> | Lumens    | 32082.2  | 0.0    | 32082.2 |
|                    | % Fixture | 87.8     | 0.0    | 87.8    |
| <b>Total</b>       | Lumens    | 36530.0  | 0.0    | 36530.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 965.6   | 2.6       |
| 10°-20°   | 2523.4  | 6.9       |
| 20°-30°   | 4308.4  | 11.8      |
| 30°-40°   | 7933.9  | 21.7      |
| 40°-50°   | 12321.3 | 33.7      |
| 50°-60°   | 7415.4  | 20.3      |
| 60°-70°   | 857.7   | 2.3       |
| 70°-80°   | 166.0   | 0.5       |
| 80°-90°   | 38.4    | 0.1       |
| 90°-100°  | 0.0     | 0.0       |
| 100°-110° | 0.0     | 0.0       |
| 110°-120° | 0.0     | 0.0       |
| 120°-130° | 0.0     | 0.0       |
| 130°-140° | 0.0     | 0.0       |
| 140°-150° | 0.0     | 0.0       |
| 150°-160° | 0.0     | 0.0       |
| 160°-170° | 0.0     | 0.0       |
| 170°-180° | 0.0     | 0.0       |
| 0°-90°    | 36530.0 | 100.0     |
| 0°-180°   | 36530.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P532231

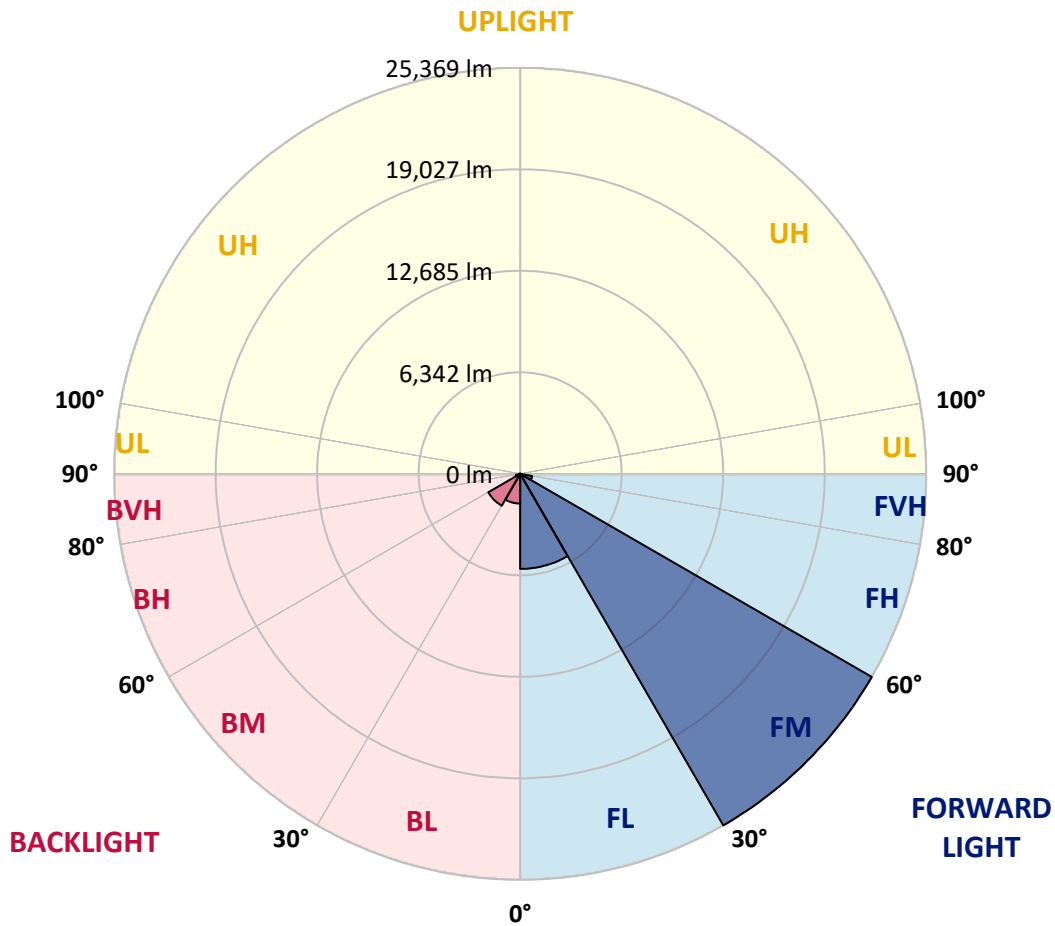
CATALOG NUMBER: GALN-SA7C-750-U-AFL-GRSBK

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 5939.3  | 16.3      |                         |      |         |
| FM (30°-60°)   | 25369.4 | 69.4      |                         |      |         |
| FH (60°-80°)   | 755.2   | 2.1       |                         |      | G1/1800 |
| FVH (80°-90°)  | 18.3    | 0.1       |                         |      | G1/100  |
| BL (0°-30°)    | 1858.0  | 5.1       | B3/2500                 |      |         |
| BM (30°-60°)   | 2301.3  | 6.3       | B2/2500                 |      |         |
| BH (60°-80°)   | 268.4   | 0.7       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 20.1    | 0.1       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G1**

Type II Short





REPORT NUMBER: P532231

CATALOG NUMBER: GALN-SA7C-750-U-AFL-GRSBK

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 52°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 10549.3 | 10549.3 | 10549.3 | 10549.3 | 10549.3 | 10549.3 | 10549.3 | 10549.3 | 10549.3 | 10549.3 | 10549.3 |
| 2.5°  | 12785.8 | 12493.0 | 12519.6 | 12327.9 | 12216.1 | 12035.0 | 11790.0 | 11742.1 | 11475.8 | 11113.7 | 10746.3 |
| 5°    | 13936.1 | 13866.9 | 13957.4 | 13680.5 | 13691.1 | 13392.9 | 12817.8 | 12828.5 | 12216.1 | 11625.0 | 11055.2 |
| 7.5°  | 14010.6 | 13850.9 | 13941.4 | 14186.4 | 14330.2 | 14276.9 | 13952.1 | 13669.8 | 13089.4 | 12221.4 | 11390.6 |
| 10°   | 12546.2 | 12849.8 | 12945.6 | 13350.3 | 13925.4 | 14532.5 | 14495.2 | 14511.2 | 14026.6 | 12892.4 | 11678.2 |
| 12.5° | 11667.6 | 11465.2 | 11790.0 | 12035.0 | 12903.0 | 14079.9 | 14617.7 | 14734.9 | 14772.2 | 13542.0 | 11965.8 |
| 15°   | 11268.2 | 11268.2 | 11321.4 | 11390.6 | 12019.0 | 13105.4 | 14202.4 | 14543.2 | 15347.3 | 14394.1 | 12418.4 |
| 17.5° | 11518.4 | 11507.8 | 11582.3 | 11438.6 | 11672.9 | 12508.9 | 13818.9 | 14207.7 | 15991.6 | 15230.1 | 12775.2 |
| 20°   | 12280.0 | 12317.2 | 12269.3 | 11853.9 | 11869.9 | 12498.3 | 13392.9 | 14005.3 | 16428.3 | 15954.4 | 13249.1 |
| 22.5° | 13339.7 | 13361.0 | 13089.4 | 12636.7 | 12503.6 | 12812.5 | 13637.9 | 14106.5 | 16779.8 | 16822.4 | 13392.9 |
| 25°   | 14564.5 | 14479.3 | 14426.0 | 13787.0 | 13382.3 | 13648.5 | 14191.7 | 14463.3 | 16998.1 | 17567.9 | 13803.0 |
| 27.5° | 16263.2 | 16092.8 | 15768.0 | 15198.2 | 14900.0 | 14521.9 | 14910.6 | 15357.9 | 17621.1 | 18611.6 | 14250.3 |
| 30°   | 18771.4 | 18622.3 | 17988.6 | 17253.7 | 16470.9 | 16098.1 | 16220.6 | 16465.6 | 18744.8 | 19820.5 | 14841.4 |
| 32.5° | 22547.0 | 22232.8 | 21316.8 | 19916.3 | 18851.3 | 17823.5 | 17791.6 | 18052.5 | 19751.2 | 21492.6 | 15544.3 |
| 35°   | 26706.0 | 26610.1 | 25262.8 | 23819.7 | 21758.8 | 20171.9 | 20198.6 | 20337.0 | 21679.0 | 23686.6 | 16465.6 |
| 37.5° | 29469.8 | 29997.0 | 29139.6 | 27590.0 | 25859.3 | 23590.7 | 23015.6 | 23063.5 | 24325.6 | 26285.3 | 18127.0 |
| 40°   | 31605.2 | 31157.9 | 31259.0 | 30896.9 | 29714.7 | 28170.4 | 26897.7 | 26647.4 | 27387.6 | 29160.9 | 19777.9 |
| 42.5° | 30673.3 | 30694.6 | 31317.6 | 32175.0 | 32467.9 | 32356.0 | 31056.7 | 30582.7 | 30007.6 | 31514.6 | 21348.8 |
| 45°   | 28042.6 | 28591.1 | 29400.5 | 31669.1 | 33660.7 | 35529.9 | 35274.2 | 34486.1 | 31818.2 | 33378.5 | 22254.1 |
| 47.5° | 23846.3 | 23825.0 | 25151.0 | 28101.2 | 32526.4 | 36903.8 | 38064.7 | 37510.8 | 33101.6 | 33170.8 | 22067.7 |
| 48°   | 22296.7 | 22680.1 | 24048.7 | 27520.7 | 31807.5 | 36701.4 | 38314.9 | 37617.3 | 32883.2 | 32893.9 | 21907.9 |
| 50°   | 16481.6 | 16412.3 | 18116.4 | 22376.6 | 28410.0 | 34486.1 | 37260.6 | 37803.7 | 32877.9 | 31493.3 | 20789.7 |
| 52.5° | 8706.7  | 9004.9  | 10245.7 | 14069.2 | 20086.7 | 28223.7 | 32867.2 | 33714.0 | 31717.0 | 29203.5 | 19181.4 |
| 55°   | 3701.0  | 3344.2  | 4297.5  | 6353.0  | 11300.1 | 18856.6 | 24112.6 | 25997.7 | 26817.8 | 25843.3 | 16779.8 |
| 57.5° | 1320.7  | 1443.1  | 1661.5  | 2391.0  | 4750.1  | 10320.3 | 14378.1 | 15842.5 | 18579.7 | 18963.1 | 11433.2 |
| 60°   | 846.7   | 862.7   | 931.9   | 1097.0  | 1783.9  | 3977.9  | 6821.6  | 7987.8  | 9228.6  | 9526.8  | 5335.9  |
| 62.5° | 655.0   | 660.3   | 692.3   | 718.9   | 846.7   | 1544.3  | 2561.4  | 3035.4  | 3152.5  | 2710.5  | 1400.5  |
| 65°   | 548.5   | 553.8   | 564.5   | 564.5   | 601.7   | 724.2   | 894.6   | 985.2   | 958.5   | 947.9   | 793.5   |
| 67.5° | 420.7   | 431.3   | 452.6   | 452.6   | 473.9   | 442.0   | 495.2   | 527.2   | 596.4   | 724.2   | 676.3   |
| 70°   | 330.2   | 335.5   | 351.5   | 362.1   | 362.1   | 319.5   | 356.8   | 388.7   | 436.7   | 537.8   | 532.5   |
| 72.5° | 255.6   | 266.3   | 276.9   | 276.9   | 260.9   | 218.3   | 255.6   | 282.2   | 314.2   | 372.8   | 362.1   |
| 75°   | 197.0   | 197.0   | 202.4   | 165.1   | 127.8   | 111.8   | 154.4   | 186.4   | 234.3   | 245.0   | 202.4   |
| 77.5° | 53.3    | 58.6    | 53.3    | 47.9    | 53.3    | 79.9    | 101.2   | 117.2   | 149.1   | 149.1   | 133.1   |
| 80°   | 0.0     | 5.3     | 16.0    | 32.0    | 53.3    | 74.6    | 90.5    | 101.2   | 117.2   | 127.8   | 122.5   |
| 82.5° | 0.0     | 5.3     | 16.0    | 32.0    | 47.9    | 58.6    | 79.9    | 85.2    | 95.9    | 111.8   | 111.8   |
| 85°   | 0.0     | 5.3     | 10.7    | 21.3    | 32.0    | 37.3    | 37.3    | 32.0    | 32.0    | 26.6    | 21.3    |
| 87.5° | 0.0     | 0.0     | 5.3     | 10.7    | 10.7    | 16.0    | 16.0    | 16.0    | 16.0    | 16.0    | 16.0    |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |



REPORT NUMBER: P532231

CATALOG NUMBER: GALN-SA7C-750-U-AFL-GRSBK

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°     | 105°    | 115°    | 125°    | 135°    | 145°    | 155°    | 165°    | 175°    | 180°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 10549.3 | 10549.3 | 10549.3 | 10549.3 | 10549.3 | 10549.3 | 10549.3 | 10549.3 | 10549.3 | 10549.3 | 10549.3 |
| 2.5°  | 10602.5 | 10437.4 | 10187.1 | 9793.1  | 9415.0  | 9170.0  | 8935.7  | 8674.8  | 8531.0  | 8520.3  | 8440.5  |
| 5°    | 10730.3 | 10357.5 | 9761.1  | 9084.8  | 8360.6  | 7737.5  | 7109.2  | 6699.1  | 6331.7  | 6129.3  | 6092.0  |
| 7.5°  | 10799.5 | 10314.9 | 9351.1  | 8216.8  | 6981.4  | 5964.2  | 5261.3  | 4744.8  | 4542.4  | 4393.3  | 4388.0  |
| 10°   | 10943.3 | 10240.4 | 8738.7  | 7066.6  | 5538.2  | 4510.5  | 4025.9  | 3791.6  | 3679.7  | 3637.1  | 3573.2  |
| 12.5° | 11049.8 | 10101.9 | 8110.3  | 5884.4  | 4377.3  | 3738.3  | 3525.3  | 3472.0  | 3477.4  | 3498.7  | 3472.0  |
| 15°   | 11198.9 | 9979.5  | 7263.6  | 4830.0  | 3674.4  | 3365.5  | 3365.5  | 3376.2  | 3450.7  | 3461.4  | 3456.1  |
| 17.5° | 11188.3 | 9739.8  | 6390.3  | 3977.9  | 3248.4  | 3205.8  | 3221.8  | 3322.9  | 3370.9  | 3386.8  | 3349.6  |
| 20°   | 11316.1 | 9516.2  | 5490.3  | 3397.5  | 3008.7  | 3072.7  | 3179.2  | 3205.8  | 3264.4  | 3275.0  | 3232.4  |
| 22.5° | 11278.8 | 8957.0  | 4654.2  | 2939.5  | 2827.7  | 2950.2  | 3056.7  | 3088.6  | 3072.7  | 3040.7  | 3035.4  |
| 25°   | 11209.6 | 8477.7  | 3887.4  | 2636.0  | 2694.6  | 2827.7  | 2928.9  | 2870.3  | 2838.3  | 2843.7  | 2849.0  |
| 27.5° | 11087.1 | 7870.7  | 3253.7  | 2423.0  | 2513.5  | 2710.5  | 2705.2  | 2683.9  | 2715.9  | 2689.2  | 2715.9  |
| 30°   | 11065.8 | 7263.6  | 2731.8  | 2231.3  | 2380.4  | 2524.2  | 2534.8  | 2572.1  | 2609.4  | 2561.4  | 2609.4  |
| 32.5° | 11097.8 | 6597.9  | 2359.1  | 2114.1  | 2300.5  | 2305.8  | 2423.0  | 2460.3  | 2433.6  | 2327.1  | 2337.8  |
| 35°   | 11342.7 | 6086.7  | 2087.5  | 2050.2  | 2172.7  | 2178.0  | 2289.8  | 2241.9  | 2124.8  | 2060.9  | 2098.1  |
| 37.5° | 11859.3 | 5660.7  | 1959.7  | 1991.6  | 2002.3  | 2071.5  | 2076.8  | 1981.0  | 1991.6  | 1986.3  | 2007.6  |
| 40°   | 12519.6 | 5335.9  | 1869.2  | 1938.4  | 1927.7  | 1975.7  | 1783.9  | 1837.2  | 1885.1  | 1901.1  | 1911.8  |
| 42.5° | 12972.2 | 5101.6  | 1810.6  | 1853.2  | 1831.9  | 1746.7  | 1640.2  | 1693.4  | 1730.7  | 1789.3  | 1799.9  |
| 45°   | 13174.6 | 4915.2  | 1741.3  | 1704.1  | 1704.1  | 1549.6  | 1507.0  | 1517.7  | 1602.9  | 1666.8  | 1656.1  |
| 47.5° | 12844.4 | 4734.1  | 1618.9  | 1507.0  | 1544.3  | 1416.5  | 1368.6  | 1368.6  | 1459.1  | 1539.0  | 1523.0  |
| 48°   | 12716.6 | 4659.6  | 1624.2  | 1464.4  | 1491.1  | 1395.2  | 1347.3  | 1336.6  | 1437.8  | 1512.4  | 1512.4  |
| 50°   | 12082.9 | 4382.7  | 1485.7  | 1347.3  | 1294.0  | 1283.4  | 1251.4  | 1262.1  | 1326.0  | 1395.2  | 1395.2  |
| 52.5° | 10847.5 | 3786.2  | 1256.8  | 1155.6  | 1059.7  | 1123.6  | 1139.6  | 1118.3  | 1150.2  | 1214.1  | 1208.8  |
| 55°   | 9052.9  | 2907.6  | 1006.5  | 958.5   | 884.0   | 953.2   | 985.2   | 958.5   | 926.6   | 974.5   | 974.5   |
| 57.5° | 5799.2  | 1565.6  | 804.1   | 814.8   | 740.2   | 809.4   | 836.1   | 772.2   | 713.6   | 750.9   | 745.5   |
| 60°   | 2614.7  | 937.2   | 660.3   | 644.4   | 596.4   | 676.3   | 718.9   | 644.4   | 564.5   | 591.1   | 617.7   |
| 62.5° | 979.8   | 665.7   | 500.6   | 489.9   | 479.3   | 553.8   | 575.1   | 516.5   | 436.7   | 452.6   | 458.0   |
| 65°   | 718.9   | 585.8   | 399.4   | 362.1   | 383.4   | 436.7   | 426.0   | 367.4   | 314.2   | 314.2   | 324.8   |
| 67.5° | 612.4   | 511.2   | 324.8   | 282.2   | 282.2   | 287.6   | 266.3   | 234.3   | 218.3   | 229.0   | 239.6   |
| 70°   | 479.3   | 404.7   | 255.6   | 218.3   | 197.0   | 175.7   | 154.4   | 149.1   | 133.1   | 149.1   | 143.8   |
| 72.5° | 308.9   | 271.6   | 197.0   | 165.1   | 149.1   | 122.5   | 101.2   | 95.9    | 79.9    | 74.6    | 74.6    |
| 75°   | 165.1   | 165.1   | 154.4   | 133.1   | 117.2   | 95.9    | 79.9    | 63.9    | 42.6    | 32.0    | 32.0    |
| 77.5° | 117.2   | 127.8   | 138.5   | 127.8   | 106.5   | 79.9    | 63.9    | 42.6    | 21.3    | 10.7    | 10.7    |
| 80°   | 111.8   | 127.8   | 138.5   | 122.5   | 106.5   | 79.9    | 58.6    | 32.0    | 16.0    | 5.3     | 5.3     |
| 82.5° | 101.2   | 117.2   | 127.8   | 111.8   | 95.9    | 69.2    | 53.3    | 32.0    | 16.0    | 5.3     | 5.3     |
| 85°   | 21.3    | 26.6    | 32.0    | 32.0    | 37.3    | 47.9    | 37.3    | 26.6    | 10.7    | 5.3     | 5.3     |
| 87.5° | 16.0    | 16.0    | 16.0    | 16.0    | 16.0    | 16.0    | 10.7    | 10.7    | 5.3     | 5.3     | 5.3     |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)